

(12) **United States Patent**
Puskarich

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(54) **WIRELESS DEVICE NETWORKS WITH SMOKE DETECTION CAPABILITIES**

H04M 1/72536; H04M 2242/04; H04M 2250/10; H04M 1/21; H04M 1/72538

See application file for complete search history.

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(56) **References Cited**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(Continued)

This patent is subject to a terminal disclaimer.

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Ahrens, "Smoke Alarms in U.S. Home Fires" National Fire Protection Association, Sep. 2011.

(65) **Prior Publication Data**

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Related U.S. Application Data

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CPC **H04M 1/21** (2013.01); **G08B 17/10** (2013.01); **H04M 1/72538** (2013.01)

(57) **ABSTRACT**

An electronic device may include a smoke detector. The electronic device may use the smoke detector to monitor for the presence of smoke. In response to detecting smoke with the smoke detector, the electronic device may issue an alert or take other suitable action. The electronic device may transmit alerts to nearby electronic devices and to remote electronic devices such as electronic devices at emergency services facilities. Alerts may contain maps and graphical representations of buildings in which smoke has been detected. Motion detectors and other sensors and circuitry may be used in determining whether electronic devices are being used by users and may be used in determining where the electronic devices are located. Alerts may contain information on the location of detected smoke and building occupants.

(58) **Field of Classification Search**
CPC .. G08B 25/009; G08B 27/006; G08B 27/001; G08B 13/19684; G08B 17/107; G08B 21/0283; G08B 25/016; H04M 2250/12; H04M 1/72569; H04M 1/72572; H04M 11/04;

20 Claims, 17 Drawing Sheets

